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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/640,980	08/14/2003	Lawrence B. Jansen	112455-145576	9232

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EXAMINER

NASSER, ROBERT L

ART UNIT	PAPER NUMBER
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3736

DATE MAILED: 03/15/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/640,980

Applicant(s)

JANSEN ET AL

Examiner

Robert L. Nasser Jr.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 21 December 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☐ Claim(s) _____ is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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Applicant's election of Group I in the reply filed on 8/19/2005 is acknowledged.

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: There is no basis for the nubs to be spaced longitudinally from the active surface. Since, this subject matter was in an original claim, it may be added to the specification, so long as no new matter is introduced.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 6-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Gough et al 4703756. Gough et al shows a device including a electrochemically active surface, a membrane system 14 and 22 containing an enzyme (see column 4, line 36), a membrane 20 adhering to the electrochemically active surface and at least one nub 32 of a dielectric material (glass) extending outwardly from the active surface and supporting the membrane, where the membrane "substantially" covers the nub and the surface. With respect to claim 2, the nub is an annular plate in as much as the nub of Gough appears to have the same structure as the nub of applicant's disclosure. With respect to claim 3, the active surface is part of a lengthwise body. With respect to claim 4, the body has a circular cross section. With respect to claim 5, the active surface is located circumferentially around a lengthwise body 24 of circular cross section. Claim 6

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is rejected in that the nubs are annular plates. Claim 7 is rejected in that the nub is longitudinally displaced from the active surface in as much as applicant's nubs are longitudinally spaced. . Claim 8 is rejected in that there are multiple membranes 14 and 22. Claim 9 is rejected in that the membrane system includes an enzyme layer. 22, and the nub extends transversely from the active surface.

Claims 1-4, 6-9, 20-21, and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Gough 4671288. Gough '288 shows a device including an electrochemically active surface, 18 extending centrally of 3 nubs 27 of dielectric material, and a membrane system 24 that adheres to the nub and surface, and "substantially" covers the surface, noting that applicant has not defined what "substantially" means. Claims 2 and 6 are rejected in that at least the central nub is an annular plate. Claims 3 and 4 are rejected in that the system is a circular cross-sectional, lengthwise body. Claim 7 is rejected in that the nub is longitudinally displaced from the active surface in as much as applicant's nubs are longitudinally spaced. Claim 8 is rejected in that there are multiple membranes 24. Claim 9 is rejected in that there is an enzyme layer 22. Claim 20 is rejected in that there are 3 nubs. Claim 21 is rejected in that the active surface 18 extends through the nubs. Claim 24 is rejected in that the membrane is on an external surface.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 22, 23, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gough '288. Claims 22 and 23 are rejected in that the exact shape of the membrane system is not stated to be for a particular purpose or to solve a stated problem. As such, it is the examiner's position that the shape of the membrane system would have been a matter of design choice for one skilled in the art. Claim 25 is rejected in that the examiner takes official notice that platinum is a material that is well known to be used for the purposes of element 18 of Gough. Hence, it would have been obvious to modify Gough to use platinum, as it is merely the substitution of one known equivalent material for another.

Claims 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gough '288 in view of Saitoh et al 6144871. Saitoh further teaches that glass or glass epoxy and polyimide are known to be equivalent insulators in the art. Hence, it would have been obvious to modify Gough to use polyimide for the elements 27, as it is merely the substitution of one known equivalent material for another.

Claims 27 and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gough '288 in view of Wilson 5165407. As noted by applicant in the specification, Wilson teaches that a permselective layer and an interferent excluding layer are well known to be used in a glucose sensor. Hence, it would have been obvious to modify Gough to use a layer like that of that of Wilson, as it is merely the substitution of one known sensor configuration for another.

Applicant's arguments filed 12/27/2005 have been fully considered but they are not persuasive.

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Applicant has asserted that the membrane of Gough et al does not substantially cover the nub and active surface. The examiner notes that applicant has not defined the term "substantially." As such, the examiner must give the term its broadest reasonable interpretation. As such, it is the examiner's position that the portion of the nubs covered are "substantial."

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

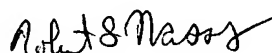
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser Jr. whose telephone number is 571 272-4731. The examiner can normally be reached on 9:30 - 6pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenberg can be reached on 571 272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RLN
March 13, 2006



ROBERT L. NASSER
PRIMARY EXAMINER